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Response to Office Action Dated 12/02/2004

1 **In the Claims**

2

3 1. (original) An architecture comprising:

4 a table appearance manager to manage how a table appears in a document;

5 and

6 a spreadsheet functionality manager to manage spreadsheet functions for
7 the table.

8

9 2. (original) The architecture of claim 1, wherein the document is a
10 markup document.

11

12 3. (original) The architecture of claim 1, wherein the table appearance
13 manager provides a formula edit box to permit the user to enter a formula into a
14 cell of the table.

15

16 4. (original) The architecture of claim 1, wherein the table appearance
17 manager comprises:

18 a table component to support editing functionality of the table; and

19 a spreadsheet component to receive data and formulas input into the table.

20

21 5. (original) The architecture of claim 1, wherein the spreadsheet
22 functionality manager comprises:

23 a cell table to maintain data values and formulas used in the table; and

24 a format table to maintain formatting information used in the table.

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2 6. (original) The architecture of claim 1, wherein the spreadsheet
3 functionality manager comprises:

4 a cell table to maintain data values and formulas used in the table; and
5 a recalculation engine to recalculate the formulas following a change to a
6 data value or formula in the cell table.

7
8 7. (original) The architecture of claim 1, wherein the spreadsheet
9 functionality manager comprises:

10 a cell table to maintain data values and formulas used in the table;
11 a delay parser to parse input for the cell table as needed; and
12 a recalculation engine to recalculate the formulas following a change to a
13 data value or formula in the cell table.

14
15 8. (original) The architecture of claim 1, wherein multiple tables appear
16 in one or more documents, and the spreadsheet functionality manager is
17 configured to maintain data and formulas for the multiple tables.

18
19 9. (original) The architecture of claim 1, wherein multiple tables appear
20 in one or more documents, and the spreadsheet functionality manager is
21 configured to track references made from one table to another table.

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1 10. (original) The architecture of claim 1, wherein multiple tables appear
2 in one or more documents, and the spreadsheet functionality manager is
3 configured to maintain data and formulas for the multiple tables and track
4 references made from one table to another table, the spreadsheet functionality
5 being further configured to update any data and formulas in the multiple tables
6 that is affected by a change made to one of the tables.

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8 11. (original) The architecture of claim 1, wherein multiple tables appear
9 in one or more documents, and wherein:

10 the table appearance manager comprises multiple spreadsheet components
11 so that there is one spreadsheet component for an associated table, each
12 spreadsheet component being configured to capture data and formulas input into
13 the associated table; and

14 the spreadsheet functionality manager comprises multiple grid components
15 so that there is one grid component for an associated table and an associated
16 spreadsheet component, each grid component maintaining the data, the formulas,
17 and formatting used in the associated table.

18
19 12. (original) The architecture of claim 1, further comprising a
20 document renderer to render the document.

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22 13. (original) The architecture of claim 1, wherein the table appearance
23 manager and the spreadsheet functionality manager reside on different computers.
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1 14. (withdrawn) An architecture comprising:
2 a user interface to present a document containing text and a table; and
3 a table management system to manage how the table appears in the
4 document and to manage spreadsheet functions for the table.

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6 15. (withdrawn) The architecture of claim 14, wherein the table
7 management system provides a formula edit box to permit the user to enter a
8 formula into a cell of the table.

9
10 16. (withdrawn) The architecture of claim 14, wherein the table
11 management system comprises:

12 a table component to support editing functionality of the table; and
13 a spreadsheet component to receive data and formulas input into the table.

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15 17. (withdrawn) The architecture of claim 14, wherein the table
16 management system comprises:

17 a cell table to maintain data values and formulas used in the table; and
18 a format table to maintain formatting information used in the table.

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1 18. (withdrawn) The architecture of claim 14, wherein the table
2 management system comprises:

3 a cell table to maintain data values and formulas used in the table; and
4 a recalculation engine to recalculate the formulas following a change to a
5 data value or formula in the cell table.

6
7 19. (withdrawn) The architecture of claim 14, wherein the table
8 management system comprises:

9 a cell table to maintain data values and formulas used in the table;
10 a delay parser to parse input for the cell table as needed; and
11 a recalculation engine to recalculate the formulas following a change to a
12 data value or formula in the cell table.

13
14 20. (withdrawn) The architecture of claim 14, wherein the document
15 contains multiple tables, and the table management system is configured to
16 maintain data and formulas for the multiple tables.

17
18 21. (withdrawn) The architecture of claim 14, wherein the user interface
19 presents multiple tables in one or more documents, and the table management
20 system is configured to maintain data and formulas for the multiple tables and
21 track references made from one table to another table, the table management
22 system being further configured to update any data and formulas in the multiple
23 tables that is affected by a change made to one of the tables.

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1 22. (withdrawn) An architecture comprising:
2 a complementary pair of spreadsheet and grid components for each table in
3 the document;
4 the spreadsheet component receiving data and formulas entered into the
5 table;
6 the grid component tracking the data and formulas in relation to cells in the
7 table; and
8 a recalculation engine to recalculate the formulas following a change to
9 data in the grid component.

10
11 23. (withdrawn) The architecture of claim 22, wherein new data is
12 entered into the table and in response:
13 the spreadsheet component receives the data and passes the data onto the
14 grid component;
15 the grid component stores the new data; and
16 the recalculation engine recalculates any formula affected by the new data.

17
18 24. (withdrawn) The architecture of claim 22, wherein a new formula is
19 entered into the table and in response:
20 the spreadsheet component receives the formula and passes it onto the grid
21 component;
22 the grid component stores the formula; and
23 the recalculation engine recalculates any formula affected by the entry of
24 the new formula.

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2 25. (withdrawn) The architecture of claim 22, wherein the grid
3 component comprises:

4 a cell table to maintain data and formulas in cells associated with the table;
5 and

6 a format table to maintain formatting information pertaining to the cells
7 associated with the table.
8

9 26. (withdrawn) The architecture of claim 22, wherein the spreadsheet
10 component provides a formula edit box user interface that permits user entry of a
11 formula.
12

13 27. (withdrawn) The architecture of claim 22, wherein the spreadsheet
14 component facilitates referencing between cells in the table and between a first
15 cell in a first table and a second cell in a second table.
16

17 28. (withdrawn) The architecture of claim 22, wherein the spreadsheet
18 component comprises:

19 a cell editing element to facilitate editing in the table; and

20 a cell behavior element to manage referencing between cells in the table
21 and among cells in multiple tables.
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23 29. (withdrawn) The architecture of claim 22, further comprising a
24 parser to parse the data and formulas received by the spreadsheet component.
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2 30. (withdrawn) The architecture of claim 22, further comprising a delay
3 parser to parse the data and formulas received by the spreadsheet component on an
4 as-needed basis.

5
6 31. (withdrawn) The architecture of claim 22, further comprising
7 multiple complementary pairs of grid and spreadsheet components corresponding
8 to multiple tables in the document.

9
10 32. (withdrawn) The architecture of claim 31, wherein a first grid
11 component references a second grid component to support cross table referencing
12 from a first table associated with the first grid component and a second table
13 associated with the second grid component.

14
15 33. (withdrawn) The architecture of claim 32, wherein the recalculation
16 engine, responsive to a change in the second grid component, recalculates a
17 formula in the first grid component.

18
19 34. (withdrawn) An architecture comprising:
20 a document renderer to render a document containing at least one table;
21 a spreadsheet component associated with the table to accept data and
22 formulas entered into the table; and
23 a spreadsheet engine to manage the data and formulas and to recalculate the
24 formulas as the data in the table is modified.
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2 35. (withdrawn) The architecture of claim 34, wherein the document
3 renderer resides on a different computer than the spreadsheet component and the
4 spreadsheet engine.

5
6 36. (withdrawn) The architecture of claim 34, wherein the spreadsheet
7 component provides a formula edit box user interface that permits user entry of a
8 formula.

9
10 37. (withdrawn) The architecture of claim 34, wherein the document
11 contains first and second tables, further comprising:

12 first and second spreadsheet components for respective first and second
13 tables, the spreadsheet components facilitating referencing between a first cell in
14 the first table and a second cell in the second table; and

15 the spreadsheet engine managing the data and formulas in the first and
16 second tables and recalculating the first cell in the first table in response to a
17 change of the second cell in the second table.

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1 38. (withdrawn) The architecture of claim 34, wherein the document
2 renderer renders a free floating field separate from the table, the architecture
3 further comprising:

4 a spreadsheet component associated with the free floating field to accept a
5 formula; and

6 the spreadsheet engine being further configured to manage the formula in
7 the free floating field and to recalculate the formula as the table is modified.

8
9 39. (withdrawn) The architecture of claim 34, wherein a particular cell
10 in the table contains a non-calculation formula that is not evaluated by the
11 spreadsheet engine but which defines a dependency between two cells.

12
13 40. (withdrawn) The architecture of claim 34, further comprising a
14 document object to perform insertion of the tables.

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1 41.. (currently amended) One or more computer-readable media
2 comprising computer-executable instructions for defining a computer architecture,
3 wherein the computer architecture comprises: ~~An architecture comprising:~~

4 a table appearance manager to manage how a table appears in a document;

5 a spreadsheet functionality manager to manage spreadsheet functions for
6 the table;

7 first and second tables renderable as part of a common document;

8 a first spreadsheet component to receive at least one of data or a first
9 formula entered into a first cell in the first table;

10 a first grid component to hold the data or first formula in association with
11 the first cell of the first table;

12 a second spreadsheet component to receive at least a second formula
13 entered into a second cell in the second table, the second formula referencing the
14 first cell in the first table; and

15 a second grid component to hold the second formula in association with the
16 second cell of the second table.

17
18 42. (original) The architecture of claim 41, wherein the first table is
19 nested within the second table.

20
21 43. (original) The architecture of claim 41, wherein the second
22 spreadsheet component presents a formula edit box to allow user entry of the
23 second formula.

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1 44. (original) The architecture of claim 41, wherein the second
2 spreadsheet component facilitates reference editing to the first cell in the first
3 table.

4
5 45. (original) The architecture of claim 41, wherein the first table is
6 nested within the second table and the second spreadsheet component facilitates
7 reference editing to the first cell in the first table.

8
9 46. (original) The architecture of claim 41, further comprising a
10 recalculation engine to recalculate the second formula held in the second grid
11 component in response to a change of the first cell in the first grid component.

12
13 47. (original) The architecture of claim 46, wherein the second table is
14 updated to reflect a result produced by the recalculation engine.

15
16 48. (original) The architecture of claim 46, wherein the first and second
17 tables are updated to reflect a result produced by the recalculation engine.

18
19 49. (original) The architecture of claim 46, wherein the first table is
20 nested within a particular cell of the second table, the particular cell containing a
21 non-calculation formula that is not evaluated by the recalculation engine but which
22 defines a dependency between the two cells.

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1 50. (original) The architecture of claim 41, further comprising:
2 a free floating field renderable in the document but separately from the first
3 and second tables;
4 a third spreadsheet component to receive a third formula entered into the
5 free floating field; and
6 a third grid component to hold the third formula.

7
8 51. (withdrawn) A method comprising:
9 presenting a table within a document;
10 receiving data and at least one formula referencing the data entered into the
11 table;
12 managing the data and formula from the table;
13 recalculating the formula in response to change of the data; and
14 presenting a modified table within the document, the modified table
15 reflecting results from said recalculating.

16
17 52. (withdrawn) The method of claim 51, wherein the presenting
18 comprises rendering a markup document.

19
20 53. (withdrawn) The method of claim 51, wherein the managing
21 comprises storing the data and formula in one or more objects associated with the
22 table.

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1 54. (withdrawn) The method of claim 51, wherein the managing
2 comprises:

3 maintaining the data and formula in a first structure representative of the
4 table; and

5 maintaining formatting information for the table in a second structure
6 representative of the table.

7
8 55. (withdrawn) The method of claim 51, wherein the recalculating
9 comprises traversing a chain of formulas and calculating the formulas according to
10 an order in the chain.

11
12 56. (withdrawn) The method of claim 51, further comprising presenting
13 a free floating field in the document and separate from the table, the free floating
14 field containing a formula that references the data in the table.

15
16 57. (withdrawn) The method of claim 56, wherein the recalculating
17 further comprises recalculating the formula in the free floating field in response to
18 change of the data.

19
20 58. (withdrawn) A computer readable medium having computer-
21 executable instructions that, when executed on one or more processors, perform
22 the method as recited in claim 56.

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1 59. (withdrawn) A method comprising:
2 presenting a table user interface (UI) within a markup document, the table
3 UI containing data and at least one formula referencing the data;
4 creating a cell table to hold the data and formula for the table UI;
5 creating a format table to hold formatting information for the table UI;
6 receiving user input in the table UI;
7 parsing the user input to update the cell table and the format table;
8 in an event the user input changes the data being referenced, recalculating
9 the formula in the cell table to produce a new result; and
10 presenting the table UI with the new result.

11
12 60. (withdrawn) The method of claim 59, wherein the presenting
13 comprises rendering the table UI as an HTML table.

14
15 61. (withdrawn) The method of claim 59, wherein the cell table
16 references one or more cell objects, each cell object being associated with a cell in
17 the table UI.

18
19 62. (withdrawn) The method of claim 59, wherein the format table
20 contains formatting information for individual cells in the table UI.

21
22 63. (withdrawn) The method of claim 59, wherein the parsing
23 determines whether the user input is a formula, data, or text and determines the
24 data format of that input.
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2 64. (withdrawn) The method of claim 59, wherein the recalculating
3 comprises traversing a chain of formulas and calculating the formulas according to
4 an order in the chain.

5
6 65. (withdrawn) The method of claim 59, wherein parsing comprises
7 delaying parsing of selected cells in the cell table and the recalculating comprises
8 inducing additional parsing of the selected cells as needed by the formula.

9
10 66. (withdrawn) The method of claim 59, further comprising presenting
11 a free floating field in the document and separate from the table, the free floating
12 field containing a formula that references the data in the table.

13
14 67. (withdrawn) The method of claim 66, wherein the recalculating
15 further comprises recalculating the formula in the free floating field in response to
16 change of the data.

17
18 68. (withdrawn) A computer readable medium having computer-
19 executable instructions that, when executed on one or more processors, perform
20 the method as recited in claim 59.

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1 69. (withdrawn) A method comprising:
2 presenting first and second tables within a document, the first and second
3 tables being separate from one another;
4 receiving data for the first table;
5 receiving a formula for the second table, the formula referencing the data in
6 the first table; and
7 upon modification of the data in the first table, automatically recalculating
8 the formula in the second table.

9
10 70. (withdrawn) The method of claim 69, wherein the presenting
11 comprises nesting the first table within the second table.

12
13 71. (withdrawn) The method of claim 69, wherein the receiving formula
14 comprises displaying a formula edit box in association with a cell of the table into
15 which the formula is being entered, the formula edit box permitting user entry of
16 the formula.

17
18 72. (withdrawn) The method of claim 69, further comprising enabling a
19 user to reference the data in the first table when entering the formula in the second
20 table.

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1 73. (withdrawn) The method of claim 69, wherein the presenting
2 comprises nesting the first table within the second table and further comprising
3 enabling a user to reference the data in the first table when entering the formula in
4 the second table.

5
6 74. (withdrawn) The method of claim 69, wherein the presenting
7 comprises nesting the first table within a particular cell of the second table, the
8 particular cell containing a non-calculation formula that is not recalculated as part
9 of the recalculating.

10
11 75. (withdrawn) The method of claim 69, further comprising presenting
12 a free floating field in the document and separate from the first and second tables,
13 the free floating field containing a formula that references one of the data in the
14 first table or the formula in the second table.

15
16 76. (withdrawn) The method of claim 75, wherein the recalculating
17 further comprises recalculating the formula in the free floating field in response to
18 change of the data in the first table.

19
20 77. (withdrawn) A computer readable medium having computer-
21 executable instructions that, when executed on one or more processors, perform
22 the method as recited in claim 69.

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1 78. (withdrawn) A method comprising:

2 presenting first and second tables within a document, the first table having

3 at least one cell with contents; and

4 referencing the cell in the first table from a cell in the second table.

5
6 79. (withdrawn) The method of claim 78, wherein the presenting

7 comprises nesting the first table within the second table.

8
9 80. (withdrawn) The method of claim 78, wherein the referencing

10 comprises using a pointer to reference the cell.

11
12 81. (withdrawn) A computer readable medium having computer-

13 executable instructions that, when executed on one or more processors, perform

14 the method as recited in claim 78.

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1 82. (currently amended) ~~A method comprising:~~ One or more computer-
2 readable media comprising computer-executable instructions for defining a
3 computer architecture, wherein the computer architecture comprises:

4 a table appearance manager to manage how a table appears in a document;

5 a spreadsheet functionality manager to manage spreadsheet functions for
6 the table; and

7 wherein the table appearance manager and the spreadsheet functionality
8 manager are configured for:

9 _____creating a first spreadsheet table for display in a document; and

10 _____creating a second spreadsheet table for display in the document, the
11 second spreadsheet table being nested within the first spreadsheet table when
12 displayed.

13
14 83. (currently amended) A data structure stored on a computer readable
15 medium, the data structure being produced as a result of ~~the method of claim 82.~~
16 operation of the table appearance manager and the spreadsheet functionality
17 manager.

18
19 84. (currently amended) ~~A computer readable medium having computer-~~
20 ~~executable instructions that, when executed on one or more processors, perform~~
21 ~~the method as recited in claim 82.~~ configured for execution of the one or more
22 computer-readable media.

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1 85. (currently amended) One or more computer-readable media
2 comprising computer-executable instructions for defining a computer architecture,
3 wherein the computer architecture comprises: A method comprising:
4 a table appearance manager to manage how a table appears in a document;
5 a spreadsheet functionality manager to manage spreadsheet functions for
6 the table; and
7 wherein the table appearance manager and the spreadsheet functionality
8 manager are configured for:
9 _____integrating text and a spreadsheet table within a common document,
10 the spreadsheet table supporting spreadsheet functionality;
11 _____formatting the text according to a particular format; and
12 _____formatting cells in the spreadsheet table according to the particular
13 format.

14
15 86. (currently amended) ~~A computer readable medium having computer-~~
16 ~~executable instructions that, when executed on one or more processors, perform~~
17 ~~the method as recited in claim 85, configured for execution of the one or more~~
18 computer-readable media.
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1 87. (currently amended) One or more computer-readable media
2 comprising computer-executable instructions for defining a computer architecture,
3 wherein the computer architecture comprises: A method comprising:
4 a table appearance manager to manage how a table appears in a document;
5 a spreadsheet functionality manager to manage spreadsheet functions for
6 the table; and
7 wherein the table appearance manager and the spreadsheet functionality
8 manager are configured for:
9 _____integrating text and a spreadsheet table within a common document,
10 the spreadsheet table supporting spreadsheet functionality; and
11 _____evaluating the text and the spreadsheet table concurrently for
12 possible spelling or grammatical errors.

13
14 88. (currently amended) ~~A computer readable medium having computer-~~
15 ~~executable instructions that, when executed on one or more processors, perform~~
16 ~~the method as recited in claim 87, configured for execution of the one or more~~
17 computer-readable media.

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1 89. (currently amended) One or more computer-readable media
2 comprising computer-executable instructions for defining a computer architecture,
3 wherein the computer architecture comprises: A method comprising:

4 a table appearance manager to manage how a table appears in a document;
5 a spreadsheet functionality manager to manage spreadsheet functions for
6 the table; and

7 wherein the table appearance manager and the spreadsheet functionality
8 manager are configured for:

9 _____integrating text and a spreadsheet table within a common document,
10 the spreadsheet table supporting spreadsheet functionality;

11 _____enabling a user to select a control function to modify or evaluate an
12 aspect of the document; and

13 _____applying the control function across both the text and the
14 spreadsheet table.

15
16 90. (currently amended) The ~~method~~ one or more computer-readable
17 media of claim 89, wherein the control function is selected from a group of
18 functions including formatting, spell checking, grammar checking, find, find and
19 replace, auto-correct, applying document themes, inserting lists, images, drawings,
20 charts, hyperlinks, automatic detection of hyperlinks, and automatic detection of
21 lists.

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1 91. (currently amended) The ~~method~~ one or more computer-readable
2 media of claim 89, wherein the control function is any text feature that can be
3 applied to the text and the applying comprises applying that text feature to the
4 spreadsheet table.

5
6 92. (currently amended) One or more computer-readable media
7 comprising computer-executable instructions for defining a computer architecture,
8 wherein the computer architecture comprises: A method comprising:

9 a table appearance manager to manage how a table appears in a document;

10 a spreadsheet functionality manager to manage spreadsheet functions for
11 the table; and

12 wherein the table appearance manager and the spreadsheet functionality
13 manager are configured for:

14 _____integrating text and a first spreadsheet table within a common
15 document, the spreadsheet table supporting spreadsheet functionality;

16 _____creating a second spreadsheet table by cutting or copying all or part
17 of the first spreadsheet table and pasting said all or part of the first spreadsheet
18 table; and

19 _____updating any references to cells in the first spreadsheet table or the
20 second spreadsheet table to reflect the newly created second spreadsheet table.

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1 93. (withdrawn) A computer readable medium having computer-
2 executable instructions that, when executed on one or more processors, performs
3 the following:

4 construct a table user interface (UI) for display within a document;
5 create a cell table to hold data and at least one formula for the table UI; and
6 upon modification of the data, recalculate the formula in the cell table to
7 produce a new result.

8
9 94. (withdrawn) The computer medium of claim 93, further comprising
10 computer-executable instructions that, when executed on one or more processors,
11 perform creation of a format table to hold information pertaining to a data format
12 of the table UI.

13
14 95. (withdrawn) A computer readable medium having computer-
15 executable instructions that, when executed on one or more processors, performs
16 the following:

17 construct a first table user interface (UI) for display within a document;
18 create a first cell table to hold data for the first table UI;
19 construct a second table user interface (UI) for display within the
20 document;
21 create a second cell table to hold a formula for the second table UI, the
22 formula referencing the data in the first cell table; and
23 upon modification of the data in the first cell table, recalculate the formula
24 in the second cell table to produce a new result.

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2 96. (withdrawn) The computer medium of claim 95, wherein the first
3 table UI is nested within the second table UI.

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5 97. (withdrawn) A computer readable medium having computer-
6 executable instructions that, when executed on one or more processors, performs
7 the following:

8 construct a table user interface (UI) for display within a document;

9 create a first cell table to hold data for the table UI;

10 construct a free floating field for display within the document;

11 create a second cell table to hold a formula for the free floating field, the
12 formula referencing the data in the first cell table; and

13 upon modification of the data in the first cell table, recalculate the formula
14 in the second cell table to produce a new result.
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1 98. (currently amended) A computer comprising:
2 a memory;
3 a processing unit coupled to the memory; and
4 an architecture stored in the memory and executable on the processing unit
5 to construct and display a document having a table with integrated spreadsheet
6 ~~functionality.~~ functionality, the architecture comprising:
7 a table appearance manager to manage how a table appears in a
8 document; and
9 a spreadsheet functionality manager to manage spreadsheet functions
10 for the table.
11

12 99. (original) A computer as recited in claim 98, wherein the
13 architecture constructs multiple tables within the document, at least one table
14 containing a reference to contents in another table.
15

16 100. (original) A computer as recited in claim 98, wherein the
17 architecture constructs multiple tables within the document, the tables containing
18 formulas referencing contents of other tables, whereupon modification of content
19 in one of the tables, the architecture automatically recalculates all formulas in the
20 tables in the document.
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101. (original) A computer as recited in claim 98, wherein the architecture constructs a free floating field in the document, the free floating field containing a formula referencing content in the table, whereupon modification of content in the table, the architecture automatically recalculates the formulas in the free floating field.

102. (original) A computer as recited in claim 98, wherein the architecture comprises:

a table appearance manager to manage how a table appears in the document; and

a spreadsheet functionality manager to manage spreadsheet functions for the table.

103. (original) A computer as recited in claim 98, wherein the architecture comprises a complementary pair of spreadsheet and grid objects for the table, the spreadsheet object facilitating user entry of content into the table and the grid object holding the content for the table.

104. (withdrawn) A markup document stored on a computer readable medium and renderable on a display, comprising:

a text portion;

a first spreadsheet table having multiple cells; and

a second spreadsheet table nested within a cell of the first spreadsheet table.

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1 105. (withdrawn) A data structure stored as recited in claim 104, further
2 comprising a free floating field embedded in the text portion, the free floating field
3 referencing a cell in one of the first table or the second table.
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